

12/15/82



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

002946

DEC 15 1982

MEMORANDUM

OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCES

TO: Robert Taylor (25)  
Registration Division (TS-767)

THRU: Orville E. Paynter, Ph.D.  
Chief, Toxicology Branch  
Hazard Evaluation Division (TS-769)

SUBJECT: Review of Validated Study entitled "Two-Year Chronic  
Oral Toxicity Study with Dowco 233 In Albino Rats"  
conducted at IBT (No. 621-06138).  
CASWELL#8821

*WJ Bunker*  
*12.15.82*

Recommendation:

This study is classified as Core Supplementary Data. There are, however, useful data on body weight, food consumption, organ weights and ratios, hematology, clinical chemistry, urinalysis and neoplasms. It is also concluded in this review that the study has been compromised as a carcinogenic and toxicity evaluation, because of incomplete pathology. Consequently a definitive statement relative to oncogenic potential cannot be based nor a NOEL for chronic toxicity be established on data from this study.

Treated females in the mid and high levels tended to weigh less than control females during the second year of the study, but differences were not statistically significant. Heart, liver and kidney body weight ratios for high level females were increased, but the difference was significant only for the heart and kidney. A study of the data for these ratios indicates that the increase is more a reflection of body weight differences between the control and high level females than an increase in absolute organ weights for the high level females.

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# IBT VALIDATION REPORT

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- (1) CHEMICAL: Dowco® 233 (Garlon).
- (2) TYPE OF FORMULATION: Not specified (see Raw Data Outline II-F).
- (3) CITATION: IRT Project Number 621-06138 entitled Two-Year Chronic Oral Toxicity Study with Dowco® 233 in Albino Rats (April 19, 1978).
- (4) SPONSOR: Dow Chemical Company.
- (5) EPA ACCESSION NUMBER and/or Pesticide Petition Number and/or Registration Number for the IBT Report: Registration Numbers 464-546; 464-LLU.  
Registrant Validation Report: Information not present.

(6) VALIDATION PERFORMED BY:

Experimental Pathology  
Laboratories, Inc.

Signature: [Signature]

Date: 11/19/82

Signature: [Signature]

Date: 11/19/82

- (7) Based upon findings listed in this MITRE Corporation Validation Report (which included examination of the final test report, microfiched raw data, sponsor's validation report, and/or SPRD preliminary report when available), I concur with this validity determination.

Pharmacologist  
Toxicology Branch  
HED, EPA

Signature: W. T. Teeters

Date: 12-15-82

Section Head  
Toxicology Branch  
HED, EPA

Signature: [Signature]

Date: 12/15/82

- (8) TOPIC: This study has information pertinent to the discipline of toxicology. Topic: chronic feeding study. It relates to the Proposed Guidelines data requirement 163.83-1.

(9) CONCLUSION:

VALID

X

SUPPLEMENTARY

INVALID